NEXCOM International Co., Ltd.

Multi-Media Solutions

Digital Signage Platform

NDiS 122

User Manual

NEXCOM International Co., Ltd.
Published August 2010

www.nexcom.com

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PREFACE

Copyright

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Acknowledgements

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Regulatory Compliance Statements

This section provides the FCC compliance statement for Class A devices and describes how to keep the system CE compliant.

Declaration of Conformity

FCC

This equipment has been tested and verified to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area (domestic environment) is likely to cause harmful interference, in which case the user will be required to correct the interference (take adequate measures) at their own expense.

CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

RoHS Compliance

NEXCOM RoHS Environmental Policy and Status Update

NEXCOM is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2002/95/EU, to be your trusted green partner and to protect our environment.

RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force in to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize NEXCOM RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.

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Warranty and RMA

NEXCOM Warranty Period

NEXCOM manufactures products that are new or equivalent to new in accordance with industry standard. NEXCOM warrants that products will be free from defect in material and workmanship for 2 years, beginning on the date of invoice by NEXCOM. HCP series products (Blade Server) which are manufactured by NEXCOM are covered by a three year warranty period.

NEXCOM Return Merchandise Authorization (RMA)

- Customers shall enclose the "NEXCOM RMA Service Form" with the returned packages.
- Customers must collect all the information about the problems encountered and note anything abnormal or, print out any on-screen messages, and describe the problems on the "NEXCOM RMA Service Form" for the RMA number apply process.
- Customers can send back the faulty products with or without accessories (manuals, cable, etc.) and any components from the card, such as CPU and RAM. If the components were suspected as part of the problems, please note clearly which components are included. Otherwise, NEXCOM is not responsible for the devices/parts.
- Customers are responsible for the safe packaging of defective products, making sure it is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurred during transportation, the repair is treated as "Out of Warranty."
- Any products returned by NEXCOM to other locations besides the customers' site will bear an extra charge and will be billed to the customer.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

System Level

- Component fee: NEXCOM will only charge for main components such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistor, capacitor.
- Items will be replaced with NEXCOM products if the original one cannot be repaired. Ex: motherboard, power supply, etc.
- Replace with 3rd party products if needed.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

Board Level

- Component fee: NEXCOM will only charge for main components, such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistors, capacitors.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

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Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needlenose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

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Safety Precautions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
7. Do not leave this equipment in either an unconditioned environment or in a above 40°C storage temperature as this may damage the equipment.
8. The openings on the enclosure are for air convection to protect the equipment from overheating. DO NOT COVER THE OPENINGS.
9. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
10. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
11. All cautions and warnings on the equipment should be noted.
12. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
13. Never pour any liquid into an opening. This may cause fire or electrical shock.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If one of the following situations arises, get the equipment checked by service personnel:

    a. The power cord or plug is damaged.

    b. Liquid has penetrated into the equipment.

    c. The equipment has been exposed to moisture.

    d. The equipment does not work well, or you cannot get it to work according to the user's manual.

    e. The equipment has been dropped and damaged.

    f. The equipment has obvious signs of breakage.
16. Do not place heavy objects on the equipment.
17. The unit uses a three-wire ground cable which is equipped with a third pin to ground the unit and prevent electric shock. Do not defeat the purpose of this pin. If your outlet does not support this kind of plug, contact your electrician to replace your obsolete outlet.
18. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
19. The computer is provided with CD drives that comply with the appropriate safety standards including IEC 60825.

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Technical Support and Assistance

1. For the most updated information of NEXCOM products, visit NEXCOM's website at www.nexcom.com.

2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
   - Product name and serial number
   - Detailed information of the peripheral devices
   - Detailed information of the installed software (operating system, version, application software, etc.)
   - A complete description of the problem
   - The exact wordings of the error messages

Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.
2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.
3. CompactFlash: Turn off the unit's power before inserting or removing a CompactFlash storage card.

Conventions Used in this Manual

Warning: Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.

Caution: Information to avoid damaging components or losing data.

Note: Provides additional information to complete a task easily.

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Package Contents

Before continuing, verify that the NDiS 122 package that you received is complete. Your NDiS 122 package should have all the items listed in the following table.

Item	P/N	Name	Qty
1	7400060003X00	POWER ADAPTER FSP:FSP060-1AD101C(N09002) 60W 12V/5A	1
2	50311F0100X00	(H)ROUND HEAD SCREW W/SPRING+FLAT WASHER LONG P3x6L	4
3	50311F0102X00	(H)ROUND HEAD SCREW LONG P6#32Tx 1/4/SW7*0.8	4
4	5043330314X00	FOOT BRACKET 190x24x6mm SPCC1.2t+NICKEL COATING	2
5	602DCD0259X00	(N)NDiS122 CD DRIVER VER:1.0	1

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Ordering Information

The following provides ordering information for NDiS 122.

- **NDiS 122 (P/N: 10W00012200X0)**
- **Accessories**

Item	P/N	Name	Specification	Qty
1	10VK0006006X0	Wireless Mini Card	Wireless Mini Card, 802.11 b/g/n 2T3R QCOM:Q802XKN, w/antenna & cable, w/ packing	1
2	10W00DVBT02X0	TV Tuner Mini Card	DVB-T Digital TV Tuner Card, YUAN:MC770A, w/antenna & cable, w/ packing	1

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Chapter 1: Product Introduction

Overview

NDiS 122 is designed for Digital Signage application. It provides ease of mounting the system behind large-size display devices such as LCD TV or PDP.

NDiS 122 operates on Intel® Atom™ processor D510. With its superior thermal design, it can reduce maintenance cost and thus guarantees stability on 24/7 nonstop operation.

NDiS 122 provides VGA display interface with audio output, one GbE Ethernet with optional wireless module, USB 2.0 ports and a 2.5" drive bay for a storage device.

Key Features

CPU

- Intel® Atom™ processor D510, 1.66GHz single core with HT

Chipset

- Intel® NM10 Express Chipset
- Intel® GMA 3150 Graphic Engine

Memory

- 2 x DIMM, DDR2 667/800 up to 4GB

Audio Controller

- Realtek ALC662

Gigabit Ethernet Controller

- Realtek 8111DL Gigabit Ethernet Controller

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SPI Flash ROM

- 4Mb flash ROM for BIOS

USB

- Two internal header provides two USB ports
- Two external connectors provide four USB ports

SATA

- Supports 2 SATA bay
- Data rate up to 3.0GB/s (300MB/s)

Mini PCIe

- Supports one Mini PCIe slot

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Hardware Specifications

I/O Interface

Front Panel

- Power LED
- Storage LED

Rear Panel

- 1 x RS232 COM port
- ATX Power-on switch
- 12VDC Power in
- 1 x VGA
- 4 x USB 2.0
- 1 x RJ45 with LEDs for 10/100/1000Mbps Ethernet
- 1 x Audio Line-Out/Line-in/Mic-in
- 1 x Antenna hole for WLAN
- 1 x PS2 KB/MS

Onboard Pin Headers and Connectors

- 2 SATA connectors
- 2 USB header
- 1 SPDIF-out header
- 1 front audio connector
- 1 front panel connector
- 1 fan header
- 1 parallel port header
- 2 serial port header
- 1 2x12 pin power connector

Dimensions

- 260 mm (W) x 190 mm (D) x 50 mm(H) (10.2" x 7.5" x 1.96") w/o mounting bracket

Power Input

- External AC/DC power adaptor 60W
  - In: 90VAC~264VAC
  - Out: 12VDC

Environment

- Operating temperature: Ambient with air flow 0C~40C (HDD inside)
- Storage temperature: -20C~60C
- Humidity: 10%~90% @40C

Certification

- CE
- FCC

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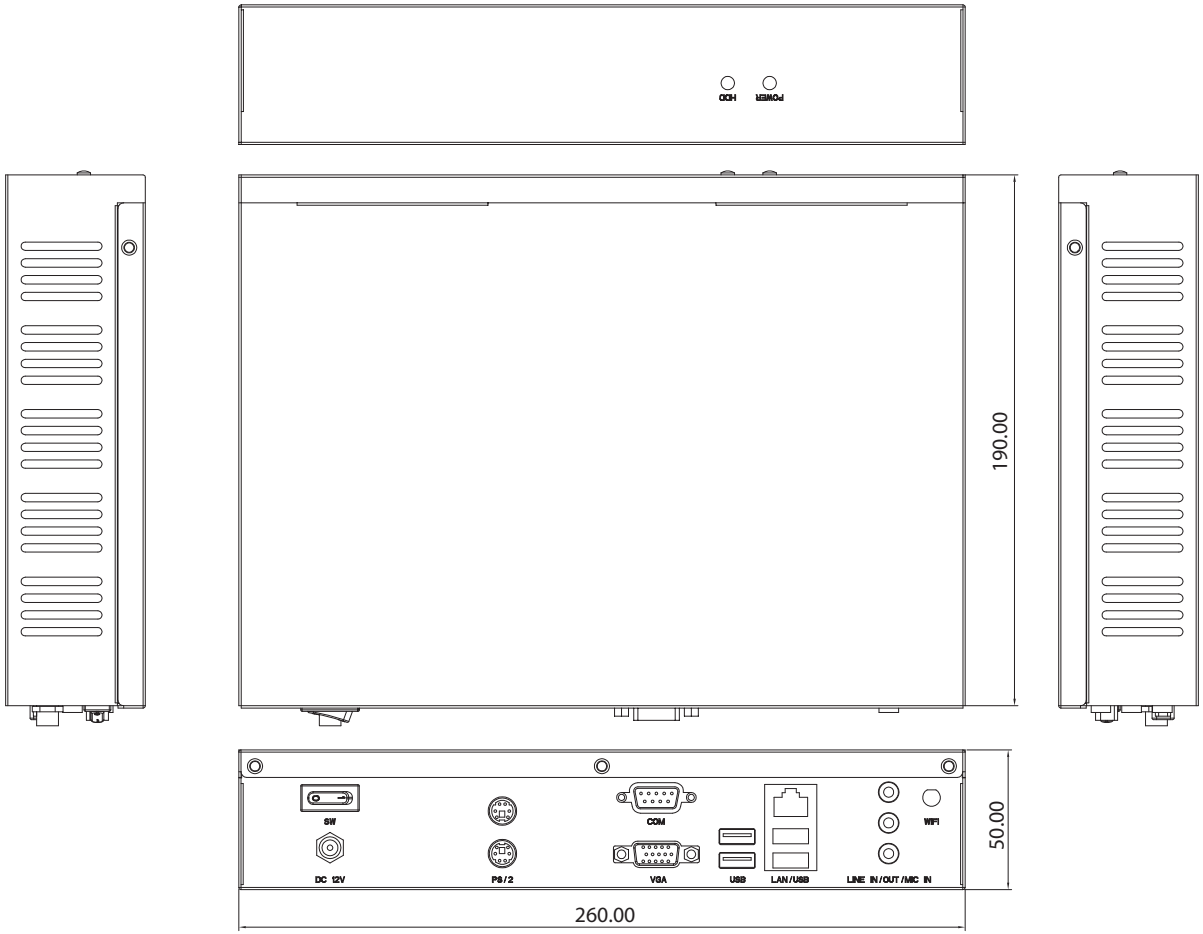
Mechanical Dimensions



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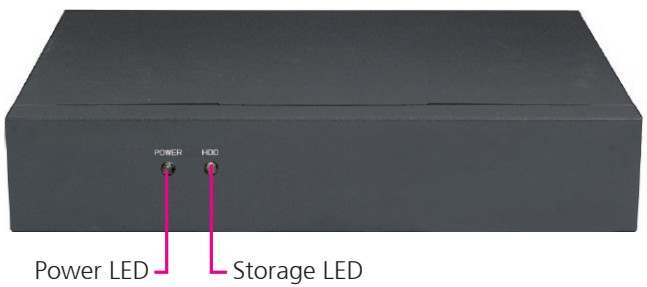
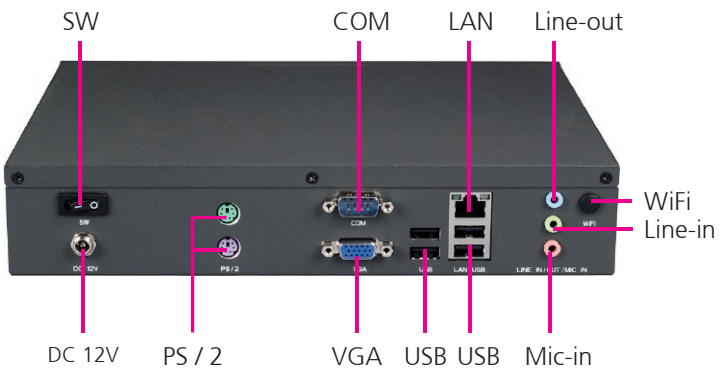
Chapter 2: Hardware Functionalit

Front Panel



Rear Panel



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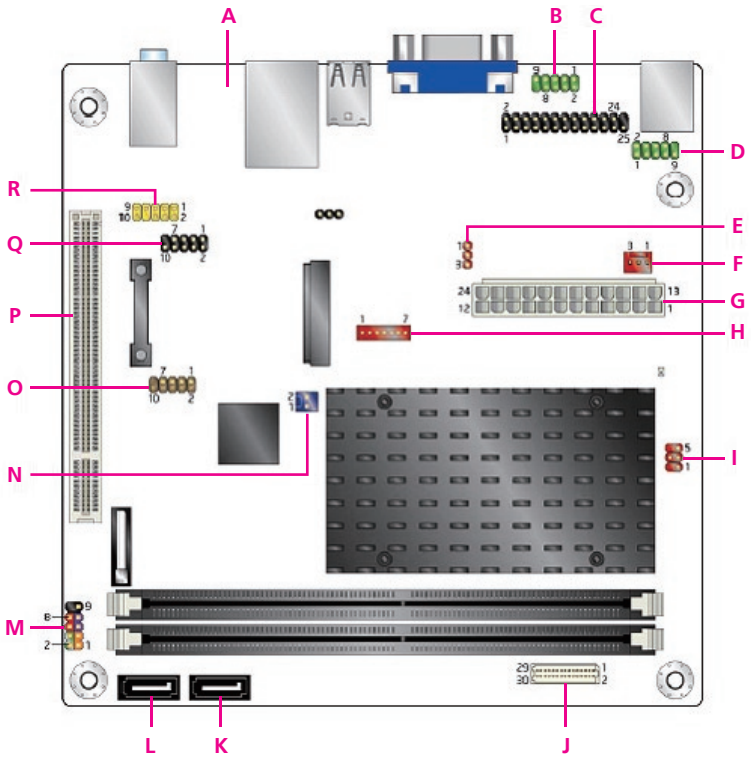
Internal Connectors



A	S/PDIF header
B	Serial ort header (COM1)
C	Parallel port header
D	Serial port header (COM2)
E	LVDS inverter power voltage selection jumper (optional)
F	Chassis fan header
G	Main power connector (2 x 12)
H	LVDS inverter power connector (optional)
I	LVDS inverter panel voltage selection header (optional)
J	LVDS panel connector (optional)
K	SATA connector 1
L	SATA connector 0
M	Front panel header
N	Front panel wireless activity LED header
O	Front panel USN header (with Intel® Z-U130 USB Solid-State Drive, or compatible device, support)
P	PCI conventional bus connector
Q	USB front panel header
R	Front panel audio header

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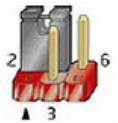
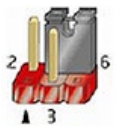
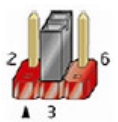
Serial Port Header (COM1 and COM2)

Pin	Signal Name	Pin	Signal Name
1	DCD (Data Carrier Detect)	2	RXD# (Receive Data)
3	TXD# (Transmit Data)	4	DTR (Data Terminal Ready)
5	Ground	6	DSR (Data Set Ready)
7	RTS (Request To Send)	8	CTS (Clear To Send)
9	RI (Ring Indicator)	10	Key (no pin)

LVDS Panel Voltage Selection Jumper (Optional)

Voltage	Jumper Setting		Configuration
3.3 V	2 and 4		Jumper position for 3.3V (default)
5V	6 and 4		Jumper position for 5V
12V	3 and 4		Jumper position for 12V

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Chassis Fan Header

Pin	Signal Name
1	Ground
2	+12 V (PWM controlled pulses)
3	Tach

SATA Connectors

Pin	Signal Name
1	Ground
2	TXP
3	TXN
4	Ground
5	RXN
6	RXP
7	Ground

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LVDS Inverter Power Connector (Optional)

Pin	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	5 V/12 V	Inverter power
4	5 V/12 V	Inverter power
5	INV_RATING	Inverter rating
6	BKLT_PWM	Backlight PWM
7	BKLT_EN	Backlight enable

LVDS Inverter Power Voltage Selection Jumper (Optional)

Voltage	Jumper Setting		Configuration
5V	1 and 2		Jumper position for 5 V (default)
12V	3 and 2		Jumper position for 12 V

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Parallel Port Header

Pin	Standard	ECP Signal Name	EPP Signal Name
1	STROBE#	STROBE#	WRITE#
2	AUTOFD#	AUTOFD#, HOSACK	DATASTB#
3	PD0	PD0	PD0
4	FAULT#	FAULT#, PERIPHREQST#	FAULT#
5	PD1	PD1	PD1
6	INT#	INT#, REVERSERQST#	RESET#
7	PD2	PD2	PD2
8	SLCTIN#	SLCTIN#	ADDRSTB#
9	PD3	PD3	PD3
10	GROUND	GROUND	GROUND
11	PD4	PD4	PD4
12	GROUND	GROUND	GROUND
13	PD5	PD5	PD5
14	GROUND	GROUND	GROUND
15	PD6	PD6	PD6
16	GROUND	GROUND	GROUND
17	PD7	PD7	PD7
18	GROUND	GROUND	GROUND
19	ACK#	ACK#	INTR
20	GROUND	GROUND	GROUND
21	BUSY	BUSY#, PERIPHACK	WAIT#
22	GROUND	GROUND	GROUND
23	PERROR	PE, ACKREVERSE#	PE
24	GROUND	GROUND	GROUND
25	SELECT	SELECT	SELECT
26	KEY (no pin)	KEY (no pin)	KEY (no pin)

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Front Panel Wireless Activity LED Header

Pin	Signal Name
1	LED (+)
2	Ground

S/PDIF Header

Pin	Signal Name
1	VCC (5V)
2	S/PDIF out
3	Ground

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Front Panel Audio Header for Intel® HD Audio

Pin	Signal Name	Pin	Signal Name
1	[Port 1] Left channel	2	Ground
3	[Port 1] Right channel	4	PRESENCE# (Dongle present)
5	[Port 2] Right channel	6	[Port 1] SENSE_RETURN
7	SENSE_SEND (Jack detection)	8	Key (no pin)
9	[Port 2] Left channel	10	[Port 2] SENSE_RETURN

Front Panel Audio Header for AC '97 Audio

Pin	Signal Name	Pin	Signal Name
1	MIC	2	AUD_GND
3	MIC_BIAS	4	AUD_GND
5	FP_OUT_R	6	FP_RETURN_R
7	AUD_5V	8	KEY (no pin)
9	FP_OUT_L	10	FP_RETURN_l

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Front Panel USB Header

Pin	Signal Name	Pin	Signal Name
1	+5 VDC	2	+5 VDC
3	D-	4	D-
5	D+	6	D+
7	Ground	8	Ground
9	KEY (no pin)	10	No Connect

Front Panel USB Header (with Intel® Z-U130 USB Solid-State Drive, or Compatible Device, Support)

Pin	Signal Name	Pin	Signal Name
1	+5 VDC	2	NC
3	D-	4	NC
5	D+	6	NC
7	Ground	8	NC
9	KEY (no pin)	10	LED#

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Power Supply Connector

Pin	Signal Name	Pin	Signal Name
1	+3.3 V	13	+3.3 V
2	+3.3 V	14	-12V
3	Ground	15	Ground
4	+5 V	16	PS-ON# (power supply remote on/off)
5	Ground	17	Ground
6	+5 V	18	Ground
7	Ground	19	Ground
8	PWRGD (Power Good)	20	No connect
9	+5 V	21	+5 V
10	+12 V	22	+5 V
11	+12 V	23	+5 V
12	No connect	24	Ground

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Chapter 3: System Setup

This chapter provides information on how to install the DIMM, storage devices, etc.

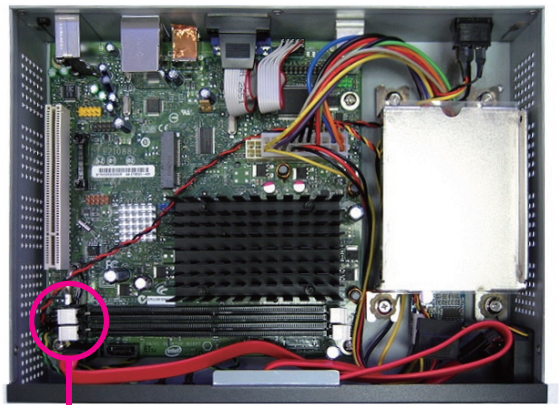
Removing the Chassis Cover

Prior to removing the chassis cover, make sure the unit's power is off and disconnected from the power sources to prevent electric shock or system damage.

1. The five screws on the cover are used to secure the cover to the chassis.
2. Remove these screws and put them in a safe place for later use. Lift the cover upward then remove it from the chassis.

Installing the DIMM

1. Locate the DIMM socket on the board.



DIMM Sockets

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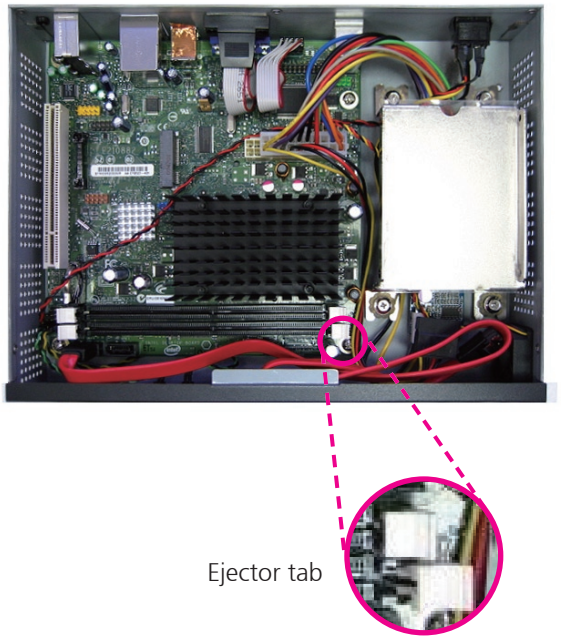
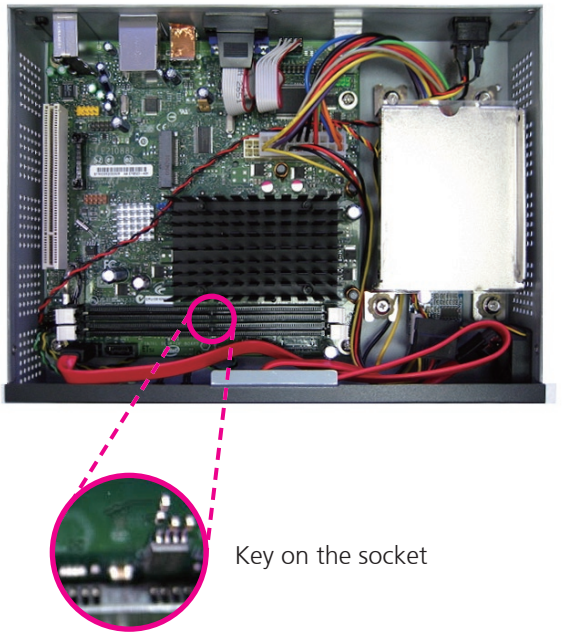
2. Push the ejector tabs which are at the ends of the socket outward. This indicates that the socket is unlocked.



3. Note how the module is keyed to the socket. Grasping the module by its edges, align the module with the socket so that the "notch" on the module is aligned with the "key" on the socket. The key ensures the module can be plugged into the socket in only one direction.



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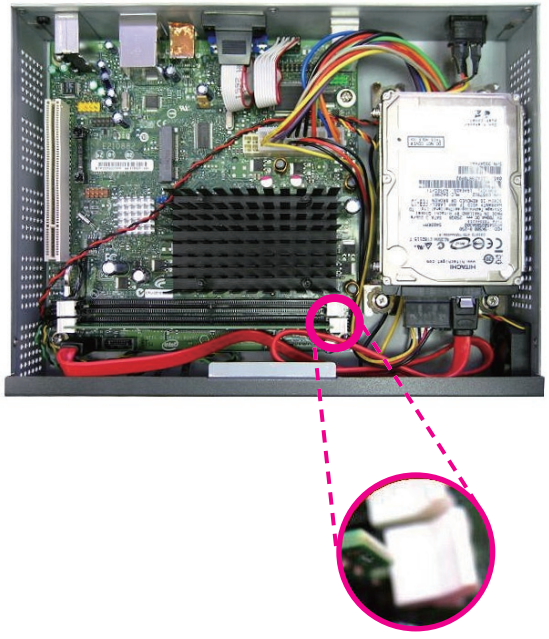
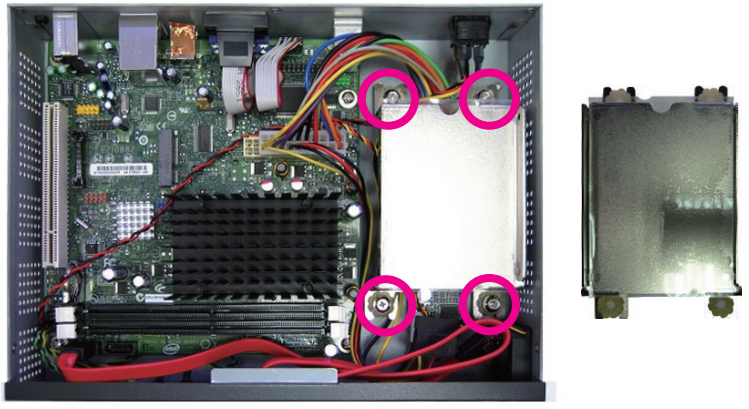
4. Seat the module vertically, pressing it down firmly until it is completely seated in the socket. The ejector tabs at the ends of the socket will automatically snap into the locked position to hold the module in place.



Installing a SATA Hard Drive

1. Remove the HDD brackets from chassis.



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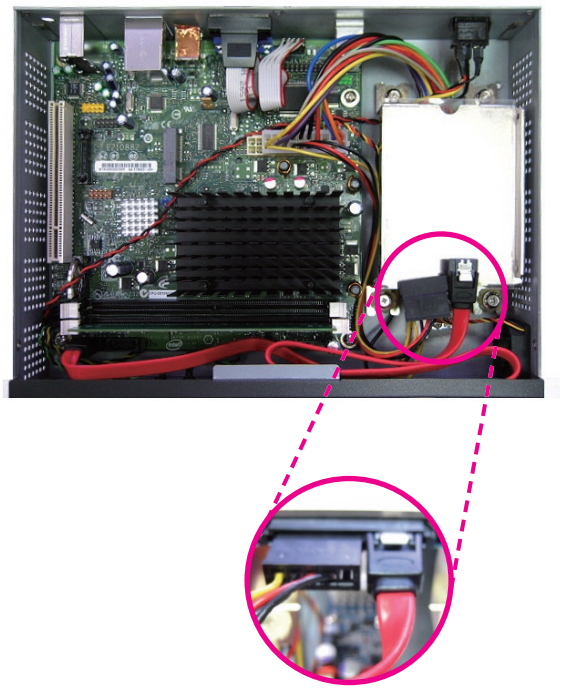
2. Place the SATA drive on the HDD bracket then use the provided screws to secure the SATA drive to the HDD bracket.

3. Connect the SATA data cable and SATA power cable to the SATA drive.



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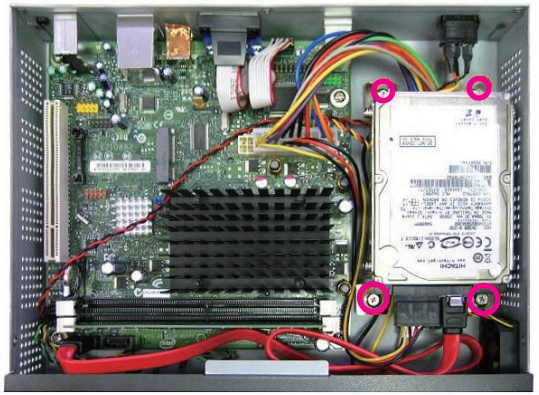
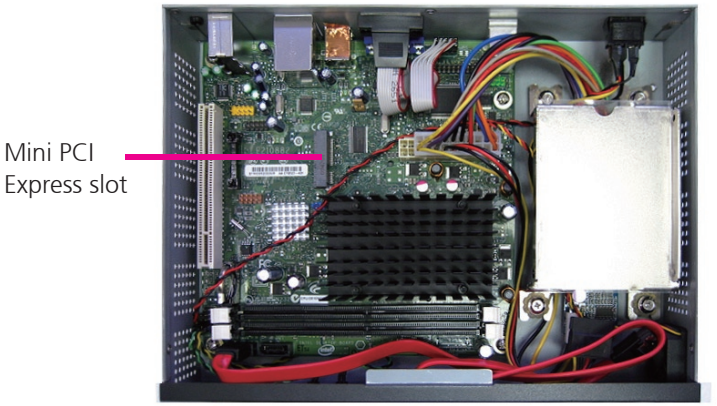
4. Locate for mounting holes of the HDD bracket on the chassis then use the provided mounting screws the bracket in place.



Installing a Wireless LAN module

1. Locate for the Mini PCI Express slot on the board.



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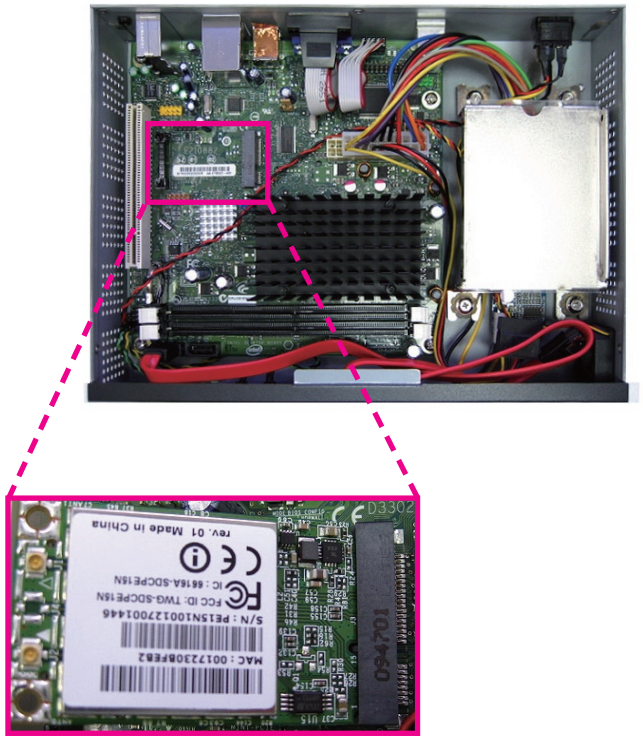
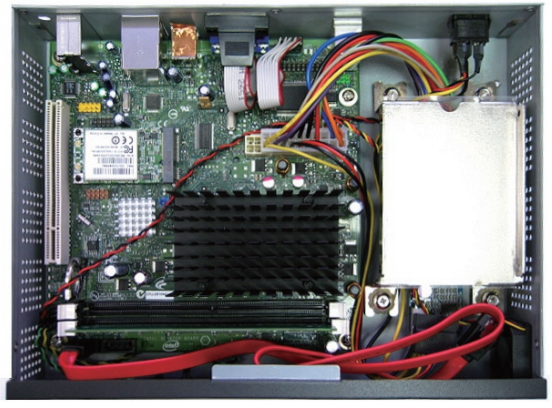
2. Insert the wireless LAN module into the Mini PCI Express slot at a 45degrees angle until the gold-plated connector on the edge of the module completely disappears inside the slot.



3. Push the module down until it is completely seated in the socket.



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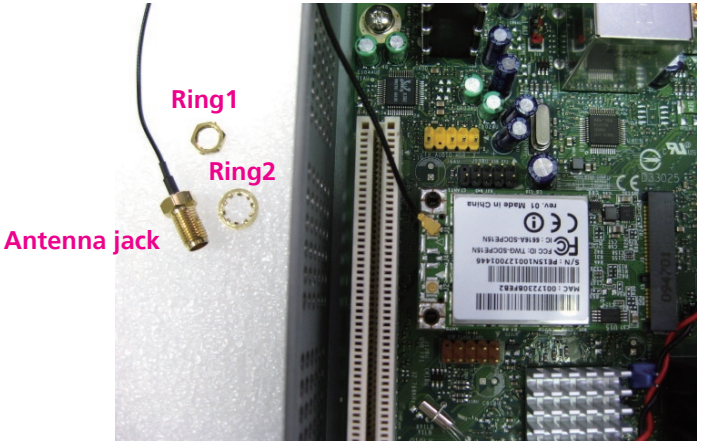
4. Attach one end of the RF cable onto the module.

5. Insert the 2 rings (ring 1 then ring 2) onto the WIFI antenna jack end of the cable.



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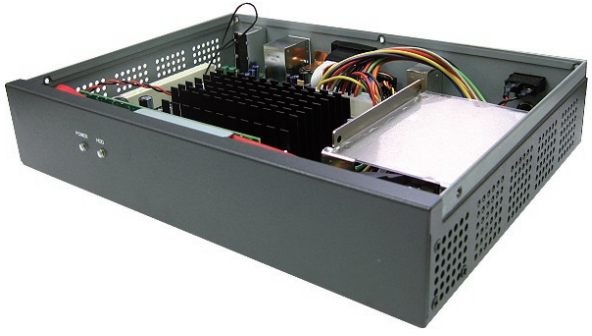
6. Remove the WIFI antenna hole cover that is located at the rear panel of the chassis.

WIFI antenna hole cover

7. Mount the WIFI antenna jack to the antenna hole then connect an external antenna to the WIFI antenna jack.



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